UREMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
30.0	–	0.60	= 72.0	
30.0	–	0.60	= 72.0	
30.0	–	0.60	= 72.0	
35.5	–	0.60	= 85.20	
			1681.20 Sqm	

Abstd. N.D
AE(W7)
30/4/18

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427775

Serial No. MAIN BILL:-
Name of Work Improvements to drains of 4th to 6th cross roads of Jakkur layout in ward 7,
Name of Contractor or nature of Agency by daravayanapura:
Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Earthwork excavation by manual mean in ordinary soil involving an average horizontal throw upto 20m and a an average lift upto 1.5m, excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking clods complete. as per specification. Qty vide page no. 4278/427769 → 489.85 cum At the rate of Rs. 86.92 →						42542.99
	Item No.02:- Providing and laying in position plain cement concrete of mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms thick well compacted in foundation & plinth						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including cost of all materials, labour, hire of machinery, curing complete as per specifications.						
	Qty vide page no. 4178 | 4277771 →					103.16 cum	
	At the rate of Rs. 5159.02 →						532205.80
	Item No. 04:-						
	Providing T.M.T steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design.						
	Qty vide page no. 4178 | 4277773 →					11.10 tonne	
	At the rate of Rs. 64243.42 →						713101.95

erial No. .....
ame of Work .....
ame of Contractor of nature of Agen
ate of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No. 05.-
	Providing an
	columns, pillars, pl
	sidewalk polygon i
	per specifications. a
	RCC drain side wall:
	4th 'A' cross-this 14-
	30-6
	60-9
	90-12
	120-15

T BOOK

nsions		Contents	Reference to last Measurem
Breadth 5	Depth 6	7	8
..., HOM of		machinery,	
→ 103.16 cum			532205.80
...rete for RCC work including ...oking, placing in position, ...quired, tying with binding ...g members wherever necessary			
...73 → 11.10 tonne			713101.95
→			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427776

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No. 05.- Providing and removing centering, shuttering, strutting, propping etc. for columns, pillars, piers, abutments, post and strut, square/rectangular slabs, sidewalk polygon in plan including cost of materials, labour complete as per specifications and directions of the engineer-in-charge.						
	RCC drain side wall:-						
	4th B'cross-Hts 14-30	1x4=4	16.0	-	0.60	= 38.40	
	30-60	1x4=4	30.0	-	0.60	= 72.00	
	60-90	1x4=4	30.0	-	0.60	= 72.00	
	90-120	1x4=4	30.0	-	0.60	= 72.00	
	120-150	1x4=4	30.0	-	0.60	= 72.00	
						326.40	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	326.40	
1	2	3	4	5	6	7	8
	150-154	1x4=4	4	-	0.60	= 9.60	
	4th 'A' cross-RHS:- 0-30	1x4=4	30.0	-	0.60	= 72.0	
	30-60	1x4=4	30.0	-	0.60	= 72.0	
	60-90	1x4=4	30.0	-	0.60	= 72.0	
	90-120	1x4=4	30.0	-	0.60	= 72.0	
	120-145	1x4=4	25.0	-	0.60	= 60.0	
	5th 'A' cross-LHS:- 0-30	1x4=4	30.0	-	0.60	= 72.0	
	30-60	1x4=4	30.0	-	0.60	= 72.0	
	60-90	1x4=4	30.0	-	0.60	= 72.0	
	90-120	1x4=4	30.0	-	0.60	= 72.0	
	120-145	1x4=4	25.0	-	0.60	= 60.0	
	5th 'A' cross-RHS:- 0-30	1x4=4	30.0	-	0.60	= 72.0	
	30-60	1x4=4	30.0	-	0.60	= 72.0	
	60-90	1x4=4	30.0	-	0.60	= 72.0	

1248.-4

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ....
ate of commencement of work .....

Date	Full description, etc, of work
1	2
	90-120
	120-145
	7th 'A' cross-LHS:- 0-30
	30-60
	60-90
	90-125.5
	Qty vide page
	At the rate
	Item No.05:- Providing

MENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	326.40 7	8
1	-	0·60	= 9·60	
60·0	-	0·60	= 72·0	
60·0	-	0·60	= 72·0	
60·0	-	0·60	= 72·0	
60·0	-	0·60	= 72·0	
25·0	-	0·60	= 60·0	
30·0	-	0·60	= 72·0	
30·0	-	0·60	= 72·0	
30·0	-	0·60	= 72·0	
30·0	-	0·60	= 72·0	
25·0	-	0·60	= 60·0	
30·0	-	0·60	= 72·0	
30·0	-	0·60	= 72·0	
30·0	-	0·60	= 72·0	

1248·-

M. A. R. 57 (Rule 116)
Measurement Book

No. B

427777

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 1248·- 7	Reference to last Measurement 8
	90-120	1×4=4	30·0	-	0·60	= 72·0	
	120-145	1×4=4	25·0	-	0·60	= 60·0	
	7th 'A' cross-LHS:- 0·30	1×4=4	30·0	-	0·60	= 72·0	
	30-60	1×4=4	30·0	-	0·60	= 72·0	
	60-90	1×4=4	30·0	-	0·60	= 72·0	
	90-125·5	1×4=4	35·5	-	0·60	= 85·20	
						1681·20 sqm	
	Qty vide page no. 4278 | 427774 →					1665 sqm	
	At the rate of Rs. 387·96 →						645953·40
	Item No.03:- Providing and laying in position reinforced						cement concrete

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of design mix M20 with OPC cement @ 320 kgs with 20mm & down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastigers @ 3lts confirming to IS aggregates. re-affirmed 2008 machine mixed, concrete laid in layers not exceeding 15cms th,						
	4th 'A' cross - LHS - Bottom:-						
	14-30	01	16.0	0.75	0.15	= 1.80	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-150	01	30.0	0.75	0.15	= 3.38	
	150-154	01	4.0	0.75	0.15	= 0.45	
	Sidewall:-	1x2=2	16.0	0.15	0.60	= 2.88	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	

29,43

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	C&FC @ 1749	1x
	4th 'A' cross - RHS - Bottom:-	
	0-30	
	30-60	
	60-90	
	90-120	
	120-145	
	Sidewall:-	1x
		1x

T BOOK

ensions Breadth 5	Depth 6	Contents 7	Reference to last Measureme 8
...ooks with ...omm & down			
...aggregates @ 0.878 cum			
... superplastigers @ 3lts			
...ismed. 2008 machine			
... exceeding 15cms th)			
0.75	0.15	= 1.80	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 0.45	
0.15	0.60	= 2.88	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	

29.43

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427778

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	4.0	0.15	0.60	= 0.72	
						40.95 cum.	
	4th 'A' cross- RHS - Bottom:-						
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-145	01	25.0	0.75	0.15	= 2.81	
	Sidewall:-	1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	

68.08

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	68.08	
1	2	3	4	5	6	7	8
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	25.0	0.15	0.60	= 4.50	
						42.41 cum	
	5th 'A' cross - LHS - Bottom:-						
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-145	01	25.0	0.75	0.15	= 2.81	
	Sidewall:-	1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	25.0	0.15	0.60	= 4.50	
						42.41 cum	

125.81

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	5th 'A' cross - RHS - bottom
	0-30
	30-60
	60-90
	90-120
	120-145
	Sidewall:-

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	68.08 7	8
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 4.50	
		42.41 cum	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 2.81	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 4.50	
0.15	0.60	42.41 cum	

125.81

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427779

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 125.81 7	Reference to last Measurement 8
	5th 'A' cross - RHS - bottom :-						
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-145	01	25.0	0.75	0.15	= 2.81	
	Sidewall:-	1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	30.0	0.15	0.60	= 5.40	
		1x2=2	25.0	0.15	0.60	= 4.50	
						42.41 cum	

168.24

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7th 'A' cross - LHS: Bottom:-					168.24	
	0-30	01	30.0	0.75	0.15	= 3.38	
	30-60	01	30.0	0.75	0.15	= 3.38	
	60-90	01	30.0	0.75	0.15	= 3.38	
	90-125.5	01	35.5	0.75	0.15	= 3.99	
	Sidewall:-	1X2=2	30.0	0.15	0.66	= 5.40	
	C/F.C.	1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	30.0	0.15	0.60	= 5.40	
		1X2=2	35.5	0.15	0.60	= 6.39	
						36.71 cum	
				Total =		204.10 cum	
	Qty ltd to 203.0 cum						
	At the rate of Rs. 6371.66 →					1293447.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.07:- Providing and reinforced cement conc size including centering mixed concrete laid all materials
	4th 'A' cross - LHS:- 0-
	4th 'A' cross - RHS = 0-14
	5th A cross - LHS: 0-14
	5th A cross - RHS:- 0-14
	7th 'A' cross - LHS:- 0-1
	Qty ltd to 520

NT BOOK

mensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.38	
0.75	0.15	= 3.99	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 5.40	
0.15	0.60	= 6.39	
		36.71 cum	
Total =		204.10 cum	
		129347.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427780

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 07:- Providing and laying 10cms thick precast RCC covering slab using reinforced cement concrete M30 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm th well compacted cost of all materials						
	4th A' cross - LHS:- 0-154 = 257		0.60	-	0.75	= 115.50	
	4th A' cross - RHS = 0-145 = 242		0.60	-	0.75	= 108.75	
	5th A cross - LHS: 0-145 = 242		0.60	-	0.75	= 108.75	
	5th A cross - RHS:- 0-145 = 242		0.60	-	0.75	= 108.90	
	7th A' cross - LHS:- 0-105 = 175		0.60	-	0.75	= 78.75	
						520.65 sqm	

Qty ltd to 520.50 sqm

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs. 2100.00 →					109 3050.00	
	Item No. 06:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregate @ 0.69 cum & fine aggregate @ 0.459 cum, machine mixed concrete laid in layers not exceeding 15 cms, th., Ramps for drain:-						
	4th 'A' cross - LHS:- 0-154	01	150	0.30	0.10	= 4.50	
	4th 'A' cross - RHS:- 0-145	01	140	0.30	0.10	= 4.20	
	5th 'A' cross - LHS:- 0-145	01	140	0.30	0.10	= 4.20	
	5th 'A' cross - RHS:- 0-145	01	140	0.30	0.10	= 4.20	
	7th 'A' cross - LHS:- 0-105	01	100	0.30	0.10	= 3.00	
						20.10 cum	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	At the rate of
	Item No. 08:- Providing and
	4th 'A' cross - LHS:- 0-15
	4th 'A' cross - RHS:- 0-14
	5th 'A' cross - LHS:- 0-14
	5th 'A' cross - RHS:- 0-145
	7th 'A' cross LHS:- 0-10
	At the rate of

OOK

dth	Depth 6	Contents 7	Reference to last Measurem 8
		1093050.00	
plain cement concrete of			
20mm and down size			
gates @ 0.69 cum per fine			
concrete laid in layers			
30	0.10	= 4.50	
30	0.10	= 4.20	
30	0.10	= 4.20	
30	0.10	= 4.20	
30	0.10	= 3.00	
		20.10 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427781

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
							115925.95
	At the rate of Rs.	25767.46 →					
	Item No-08:-						
	Providing and fixing MS grating 260 x 260mm.						
	4th 'A' cross - LHS:- 0.154	15	-	-	-	= 15.0	
	4th 'A' cross - RHS:- 0.145	15	-	-	-	= 15.0	
	5th 'A' cross - LHS:- 0.145	15	-	-	-	= 15.0	
	5th 'A' cross - RHS:- 0.145	15	-	-	-	= 15.0	
	7th 'A' cross LHS:- 0.105	10	-	-	-	= 10.0	
						70.0 nos	
	At the rate of Rs.	94.34 →					6603.80

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 09:- loading and unloading charges.						
	Qty vide page no / Item No 01 →		427775 →			489.45 cum	
	At the rate of Rs. 106.00 →					51881.70	
						44,94,711-00	
			Grand total =			4,494,711.29	
						~~44,94,705-~~	
			Add 10% KRIDL charges =			449471.13	
			Add 1% labour cess charges =			44947.11	
			Total =			4989129.53	

Assistant Executive Engin
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore.

19/6/18

Not plg. N.D
AE(W)
19/6/18

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2

NT BOOK

Dimensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
ges.				
→ 427775 →			489.45 cum	
			51881.70	
			44,94,711.00	
rand total =			4,494,711.29	
			4,494,705-	
harges =			449471.13	
ess charges =			44947.11	
29.53				
D				
18				

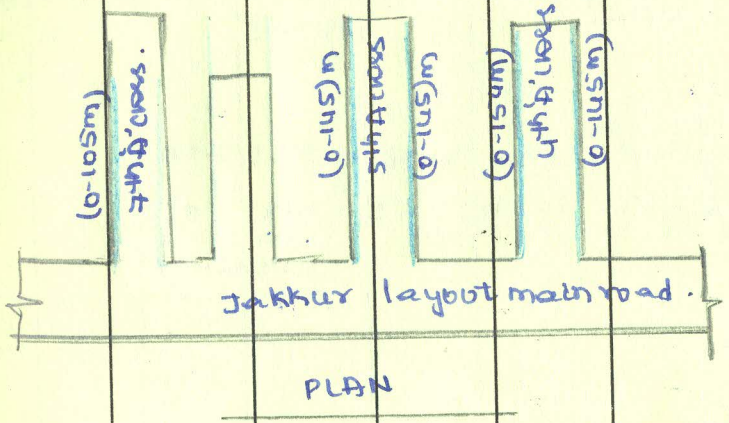
M. A. R. 57 (Rule 116)
Measurement Book

No. B

427782

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
							INDEX - RCC drain



MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Royalty charges:-		Coarse Agr.	Fine Agr.			
Sl. No.	Details	Co-eff	Qty	Co-eff	Qty.		
02.	40mm - 103.16 cum	0.96	99.03	0.48	49.51		
03.	RCC - 203.0 cum	0.85	172.55	0.416	84.40		
06.	20mm ↓ size = 20.10 cum	0.90	18.09	0.45	9.04		
~~07.~~	~~RR stabs = 520.50 sqm x 0.10~~ Total:=		289.65		142.95		
	Abstract:-						
1)	fine aggregate:- 289.65 x 108		= 31282.20				
2)	Coarse aggregate:- 142.95 x 103		= 14723.85				
			46006.05				

Serial No. .....
Name of Work .....
Name of Contractor of nature of Ag
Date of commencement of work ....

Date 1	Full description, etc, of w 2
	certificate:-
	1) certified that
	2) certified that
	Dstplg. N.D
	AE(W)

Assista
Byatara
KRI

OK

Depth 6	Contents 7	Reference to last Measurement 8
Agr. Qty		
49.51		
84.40		
9.04		
142.95		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 427783

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	certificate:-						
	1) certified that the contractor has done the work satisfactorily.						
	2) certified that the work is not repeated under any other grants.						
	Astpll. A.E.E (W7)						
	Assistant Executive Engineer Byatarayanapura Sub-Division KRIDL, BBMP, Bangalore						
	20/6/18 Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions					Reference to last Measurement
		Number	Length	Breadth	Dep		
1	2	3	4	5	6		8
	ಒಟ್ಟು ಕೆಲಸಗಳು ರೂ 49,89,130-00				Total Rs:	49,89,130-00	
	ಗುತ್ತಿಗಾರು ಮಾಡಿದ : ಇದಕ್ಕೆ ರೂ 465490-				IT	99783-0	
	ರೂ 4523640-				CM-	49891-0	
	ಮೊತ್ತಾಕ್ಷರ: ರೂಪಾಯಿ ನಲವತ್ತೈದು ಲಕ್ಷದ ಇಪ್ಪತ್ಮೂರು ಸಾವಿರದ ಆರುನೂರ ನಲವತ್ತು ಮಾತ್ರ				CBF-	4989-0	
	ರೂ				PSD-	249457-0	
	ಲೆಕ್ಕ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ				LR	59870-0	
					Fine-	1500-0	
					Adj:	465490-0	
					Claim:	45,23,640-	

Post and final bi
Serial No. Premeasurements
Name of Work Improvements
Name of Contractor of nature of Age
Date of commencement of work

Date	Full description, etc, of wo
1	2
	Est cost:-
	Job code:-
	Head of account:-
	A.S. No:-
	T.S. No:-
	Agn No:-
	Workorder amount
	Work order No:-
	Date of commencem